

PATENT
APPLICATION 10/748,959
ATTORNEY DOCKET 2003-0009 (1014-053)

AMENDMENTS

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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method, comprising:
receiving, at a subscriber interface line card, an analog signal from a POTS subscriber loop circuit, the line card adapted to utilize an enhanced mode, the enhanced mode adapted to use a codec specified in G.722 as a default codec;
automatically determining that customer premises equipment accommodates a Dolby Digital AC-3 signal;
responsive to said determination that customer premises equipment accommodates said Dolby Digital AC-3 signal, the line card adapted to automatically substitute
substituting a Dolby Digital AC-3 codec for the G.722 codec responsive to a
~~determination that customer premises equipment can accommodate Dolby Digital AC-3;~~
via the enhanced mode, quantizing the analog signal into a plurality of digital samples;
running said Dolby Digital AC-3 codec on a digital signal processor installed on the subscriber interface line card
encoding the plurality of digital samples via said Dolby Digital AC-3 codec
~~instructions running on a digital signal processor installed on the subscriber interface line card;~~ and
converting, via conversion instructions running on the digital signal processor, the encoded plurality of digital samples to a plurality of VoATM packets.
2. (Previously Presented) The method of claim 1, further comprising:
sampling the received analog signal into the plurality of samples.
3. (Previously Presented) The method of claim 1, further comprising:
digitizing the plurality of samples obtained from the received analog signal.
4. (Currently Amended) The method of claim 1, further comprising:
providing a destination address to each of the plurality of VoATM packets, the line

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card adapted to append an address header to signals transmitted to a subscriber loop circuit.

5. (Original) The method of claim 1, further comprising:
providing the plurality of VoATM packets to a VoATM packet interface.
6. (Previously Presented) The method of claim 1, further comprising:
via instructions running on the digital signal processor, performing echo cancellation on the encoded plurality of digital samples.
7. (Previously Presented) The method of claim 1, further comprising:
via instructions running on the digital signal processor, performing echo suppression on the encoded plurality of digital samples, the line card adapted to switch automatically between the codec specified in G.722 and a POTS codec based upon capabilities of customer premises equipment.
8. (Previously Presented) The method of claim 1, further comprising:
via instructions running on the digital signal processor, compressing the plurality of digital samples, the line card adapted to switch automatically between the codec specified in G.722 and a POTS codec based upon network capabilities.
9. (Previously Presented) The method of claim 1, further comprising:
via instructions running on the digital signal processor, modulating the plurality of digital samples, the line card adapted to encode the plurality of digital samples into an ADPCM format.
10. (Previously Presented) The method of claim 1, further comprising:
via instructions running on the digital signal processor, pulse-code-modulating the plurality of digital samples, the line card adapted to encode the plurality of digital samples into an LD-CELP format.

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11. (Original) The method of claim 1, further comprising:
via instructions running on the digital signal processor, converting an out-of-band signal associated with the analog signal to an out-of-band packet format.
12. (Original) The method of claim 1, further comprising:
via instructions running on the digital signal processor, converting an out-of-band DTMF signal associated with the analog signal to an out-of-band packet format.
13. (Original) The method of claim 1, further comprising:
via instructions running on the digital signal processor, converting an out-of-band fax signal associated with the analog signal to an out-of-band packet format.
14. (Original) The method of claim 1, further comprising:
via instructions running on the digital signal processor, converting a voice-band modem signal associated with the analog signal to an out-of-band packet format.
15. (Original) The method of claim 1, further comprising:
via instructions running on the digital signal processor, suppressing comfort noise samples associated with the analog signal.
16. (Currently Amended) The method of claim 1, wherein the subscriber interface line card is adapted to be installed at a central office to simultaneously support legacy CPE and electronic loop provisioning, the subscriber interface line card adapted to receive a signal indicative of a highest possible bearer bandwidth and codec that a network is capable of supporting, said Dolby Digital AC-3 codec selected based upon said signal indicative of said highest possible bearer bandwidth and codec.
17. (Currently Amended) The method of claim 1, wherein the subscriber interface line card is adapted to be installed in a central office switch, the subscriber interface line card

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adapted to interwork with ISDN to negotiate bearer capabilities between calling and called parties.

18. (Currently Amended) The method of claim 1, wherein the subscriber interface line card is adapted to be installed in a remote terminal of a central office switch, the subscriber interface line card adapted to receive a response to a query of a server, the query to the server to determine if a terminating subscriber is an enhanced services subscriber.

19. (Currently Amended) A subscriber interface line card comprising:
a POTS subscriber loop circuit interface adapted to receive an analog signal from a POTS subscriber loop circuit and quantize the analog signal into a plurality of digital samples, the line card adapted to receive a signal that customer premises equipment accommodates a Dolby Digital AC-3 signal, the line card adapted to utilize an enhanced mode, the enhanced mode adapted to use a codec specified in G.722, the line card adapted to automatically substitute a Dolby Digital AC-3 codec for the G.722 codec responsive to ~~a determination that customer premises equipment can accommodate Dolby Digital AC-3~~ said signal;

~~codec instructions~~ the Dolby Digital AC-3 codec stored on the subscriber interface line card, the Dolby Digital AC-3 codec adapted to run on a digital signal processor coupled to the POTS subscriber loop circuit interface, ~~and the Dolby Digital AC-3 codec~~ adapted to encode the plurality of digital samples; and

conversion instructions stored on the subscriber interface line card, adapted to run on the digital signal processor, and adapted to convert the encoded plurality of digital samples to a plurality of VoATM packets.

20. (Currently Amended) A machine-readable medium storing instructions for activities comprising:

receiving, at a subscriber interface line card, an analog signal from a POTS subscriber loop circuit, the line card adapted to utilize an enhanced mode, the enhanced mode adapted to use a codec specified in G.722;

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automatically determining that customer premises equipment accommodates a
Dolby Digital AC-3 signal;
responsive to said determination that customer premises equipment accommodates
said Dolby Digital AC-3 signal, the line card adapted to automatically substitute
substituting a Dolby Digital AC-3 codec for the G.722 codec responsive to a
determination that customer premises equipment can accommodate Dolby Digital AC-3;
via the enhanced mode, quantizing the analog signal into a plurality of digital
samples;
running said Dolby Digital AC-3 codec on a digital signal processor installed on
the subscriber interface line card;
encoding the plurality of digital samples via said Dolby Digital AC-3 codec
instructions running on a digital signal processor installed on the subscriber interface line
card; and
converting, via conversion instructions running on the digital signal processor, the
encoded plurality of digital samples to a plurality of VoATM packets.